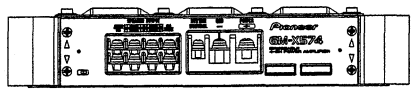
Pioneer sound.vision.soul

Service Manual



GM-X574/XR/UC

ORDER NO.
CRT2992

BRIDGEABLE POWER AMPLIFIER

GM-X574 XR/UC,XR/EW,XR/ES

For details, refer to "Important symbols for good services".

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SAFETY INFORMATION

● GM-X574/XR/UC

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

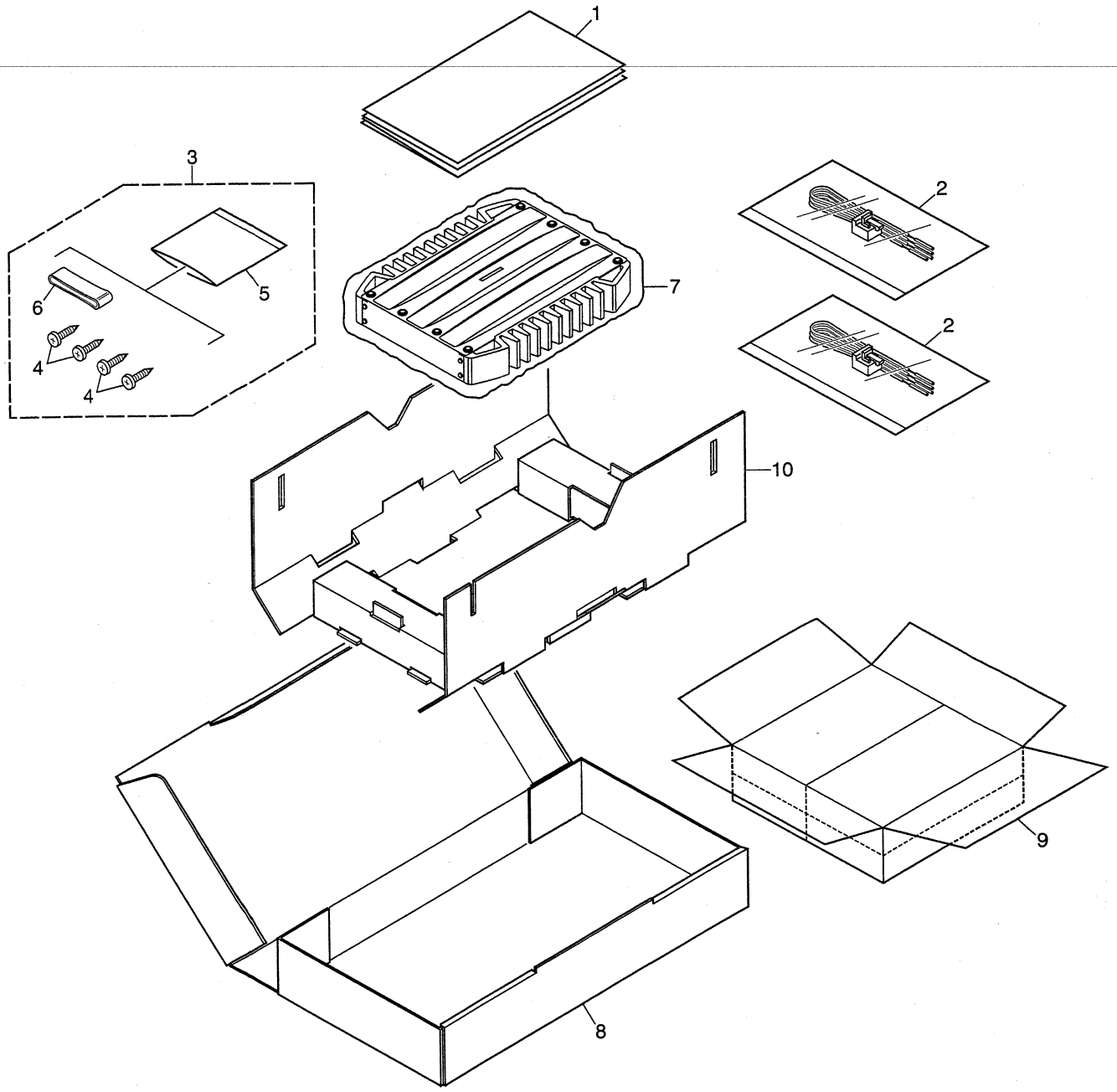
Power source	14.4 V DC (10.8 — 15.1 V allowable)
Grounding system	Negative type
Current consumption	26.5 A (at continuous power, 4 Ω)
Average current drawn*	9.1 A (4 Ω for four channels) 14.2 A (4 Ω for two channels)
Fuse	25 A × 2
Dimensions	269 (W) × 50 (H) × 309 (D) mm [10-5/8 (W) × 2 (H) × 12-1/8 (D) in]
Weight	3.7 kg (8.2 lbs) (Leads for wiring not included)
Maximum power output	100 W × 4 / 260 W × 2
Continuous power output	50 W × 4 (at 14.4 V, 4 Ω, 20 — 20,000 Hz, 0.15% THD) 130 W × 2 (at 14.4 V, 4 Ω, 20 — 20,000 Hz, 0.8% THD) 65 W × 4 (at 14.4 V, 2 Ω, 20 — 20,000 Hz, 0.8% THD)
Load impedance	4 Ω (2 — 8 Ω allowable) (Bridge connection: 4 — 8 Ω allowable)
Frequency response	10 — 45,000 Hz (+0 dB, –1 dB)
Signal-to-noise ratio	97 dB (IHF–A network)
Distortion	0.008% (10 W, 1 kHz)
Separation	65 dB (1 kHz)
Low pass filter	Cut off frequency: 80 Hz Cut off slope: –12 dB/oct
High pass filter	Cut off frequency: 80 Hz Cut off slope: –12 dB/oct
Maximum input level/impedance	RCA: 6.5 V/22 kΩ (0.2 — 6.5 V) Speaker: 26 V/40 kΩ (0.8 — 26 V)

Note:
- Specifications and the design are subject to possible modification without notice due to improvements.

***Average current drawn**
- The average current drawn is nearly the maximum current drawn by this unit when an audio signal is input. Use this value when working out total current drawn by multiple power amplifiers.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual.
  (In the case of no amount instructions, apply as you think it appropriate.)

(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
*	1-1	Card	See Contrast table(2)
	1-2	Owner's Manual	See Contrast table(2)
	1-3	Owner's Manual	See Contrast table(2)
*	1-4	Warranty Card	See Contrast table(2)
	2	Cord	HDE0044
	3	Screw Assy	HEA0058
	4	Screw	BYC40P180FZK
	5	Polyethylene Bag	HEG0011
	6	Cover	HNS0101
	7	Polyethylene Bag	HEG0022
	8	Carton	HHG0353
	9	Contain Box	HHL0353
	10	Protector	HHP0168

(2) CONTRAST TABLE

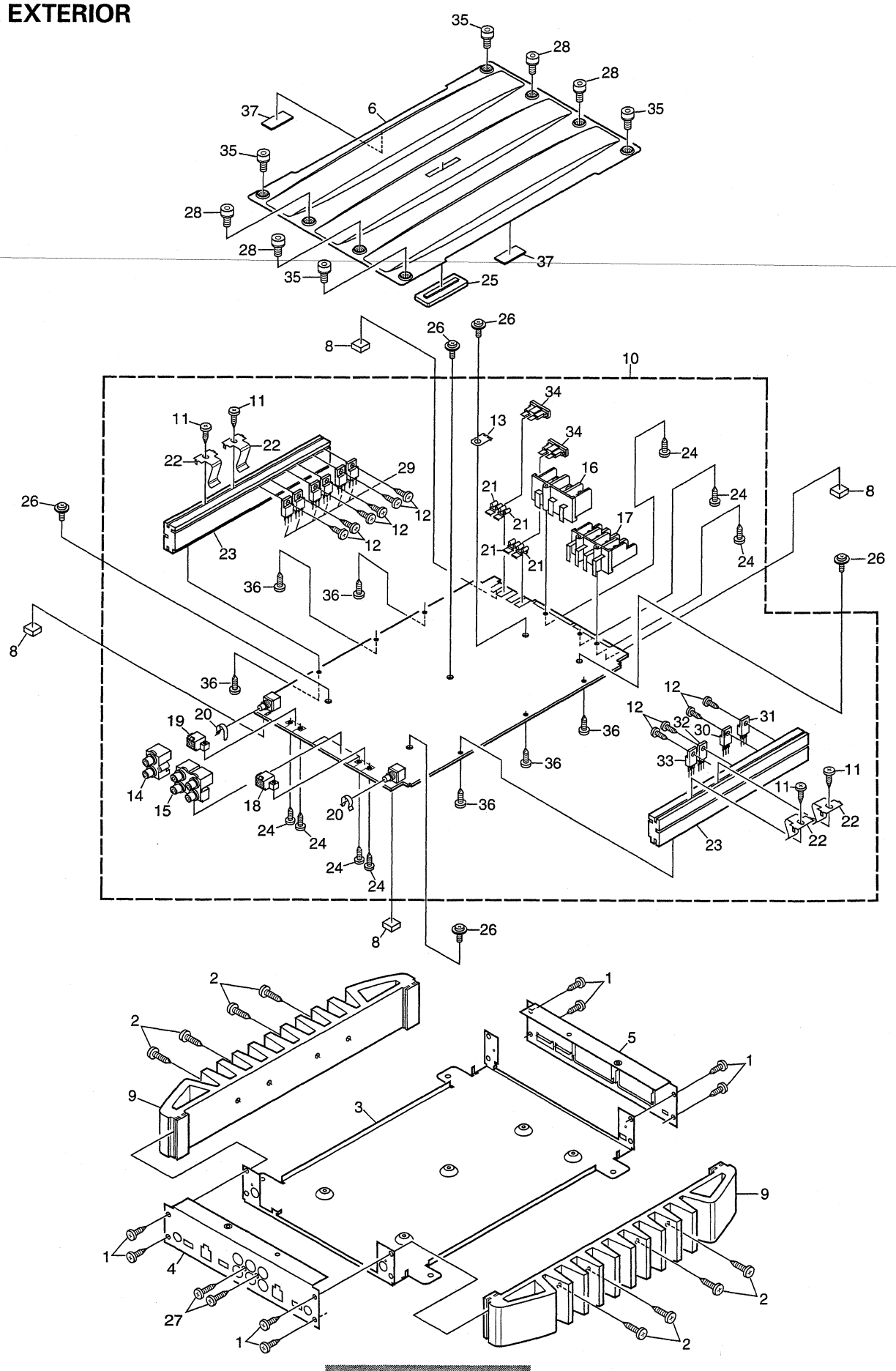
GM-X574/XR/UC, GM-X574/XR/EW and GM-X574/XR/ES are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		
			GM-X574/XR/UC	GM-X574/XR/EW	GM-X574/XR/ES
*	1-1	Card	ARY1048	Not used	Not used
	1-2	Owner's Manual	HRD0219	HRD0221	HRD0224
	1-3	Owner's Manual	Not used	Not used	HRD0225
*	1-4	Warranty Card	Not used	HRY1157	Not used

● Owner's Manual

Model	Part No.	Language
GM-X574/XR/UC	HRD0219	English, French
GM-X574/XR/EW	HRD0221	English, Spanish, German, French, Italian, Dutch
GM-X574/XR/ES	HRD0224	English, Spanish,
	HRD0225	Portuguese(B), Arabic

2.2 EXTERIOR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26
36
36
36
12
12
32
30
31
33
11
11
22
22
23
2
2
9
3
1
5
1
1
4
27
1
9
2
2

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BBZ30P060FZK
	2	Screw	BBZ30P160FZK
	3	Chassis	HNA0013
	4	Panel	HNB0188
	5	Panel	HNB0192
	6	Case	HNB0197
	7	Spacer	HNM0006
	8	Spacer	HNM0124
*	9	Heat Sink	HNR0228
	10	Amp Unit	See Contrast table(2)
	11	Screw	BBZ30P050FZK
	12	Screw	BBZ30P080FMC
	13	Terminal(CN604)	CKF1059
	14	Pin Jack(CN802)	HKB0020
	15	Pin Jack(CN801)	HKB0021
*	16	Terminal(CN601)	HKE0048
	17	Terminal(CN851)	HKE0052
	18	Connector(CN803)	HKM1077
	19	Connector(CN804)	HKM1077
*	20	Clip	HNC0054
	21	Holder	HNC0082
	22	Clip	HNC0145
	23	Heat Sink	HNR0229
	24	Screw	PPZ30P100FZK
	25	Light Pipe Unit	HXA0391
	26	Screw	ISS30P055FUC
	27	Screw	PPZ30P100FZK
	28	Screw(M4x7)	HBA0029
	29	FET(Q612-617)	STP60NF06FP
	30	Diode(D611)	FML22R
	31	Diode(D612)	FML22S
	32	Transistor(Q660)	2SD2395
	33	Transistor(Q661)	2SB1566
	34	Fuse(FU602,603)(25A)	HEK0025
	35	Screw(M4x9)	HBA0030
	36	Screw	BBZ30P060FZK
	37	Cushion	HNM6623

(2) CONTRAST TABLE

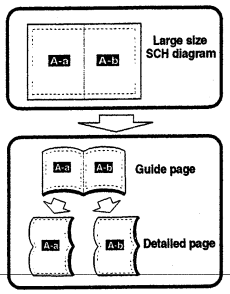
GM-X574/XR/UC, GM-X574/XR/EW and GM-X574/XR/ES are constructed the same except for the following:

Mark	No.	Description	Part No.		
			GM-X574/XR/UC	GM-X574/XR/EW	GM-X574/XR/ES
	10	Amp Unit	HWH0211	HWH0205	HWH0206

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



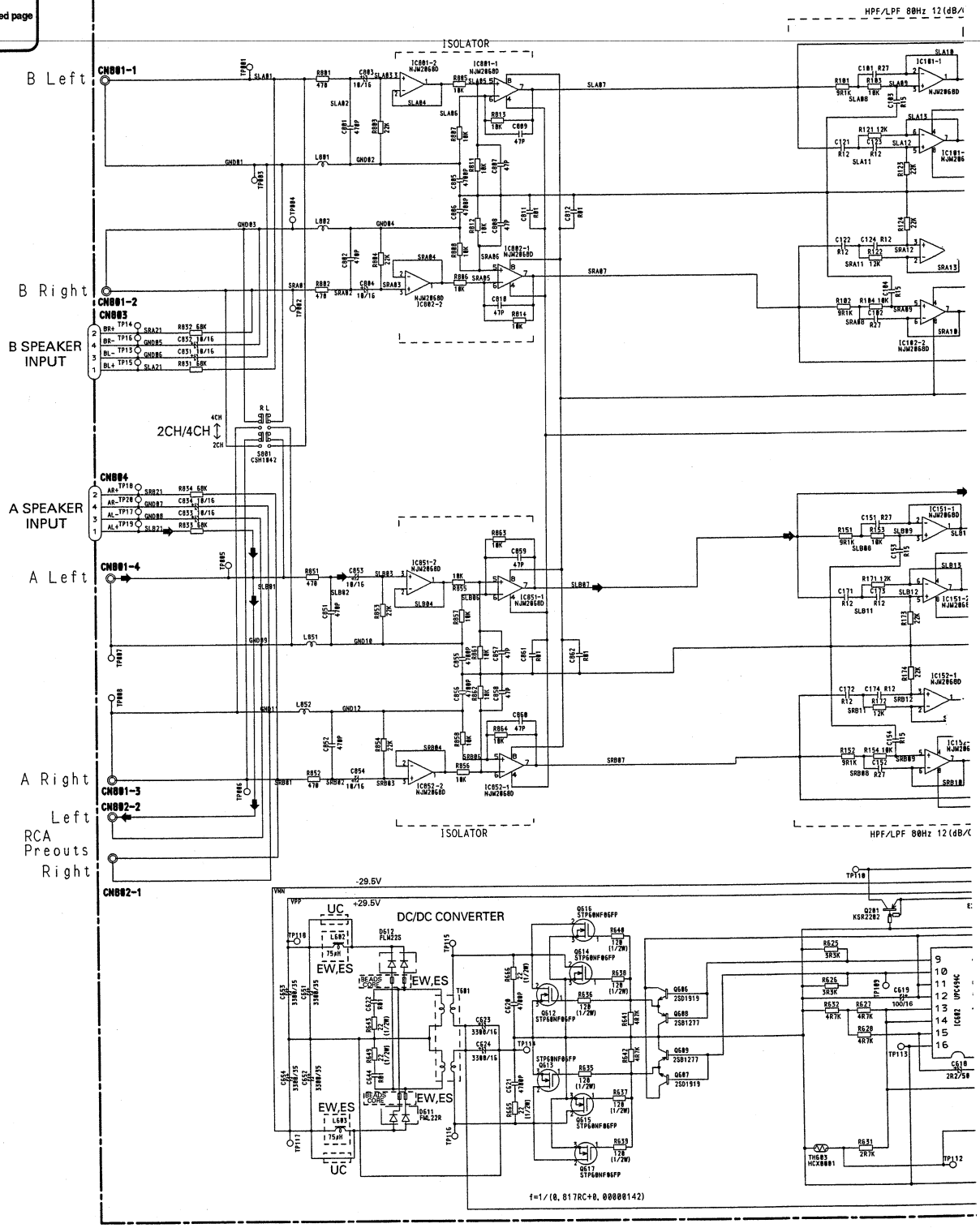
A-a

A AMP UNIT

NOTE :
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

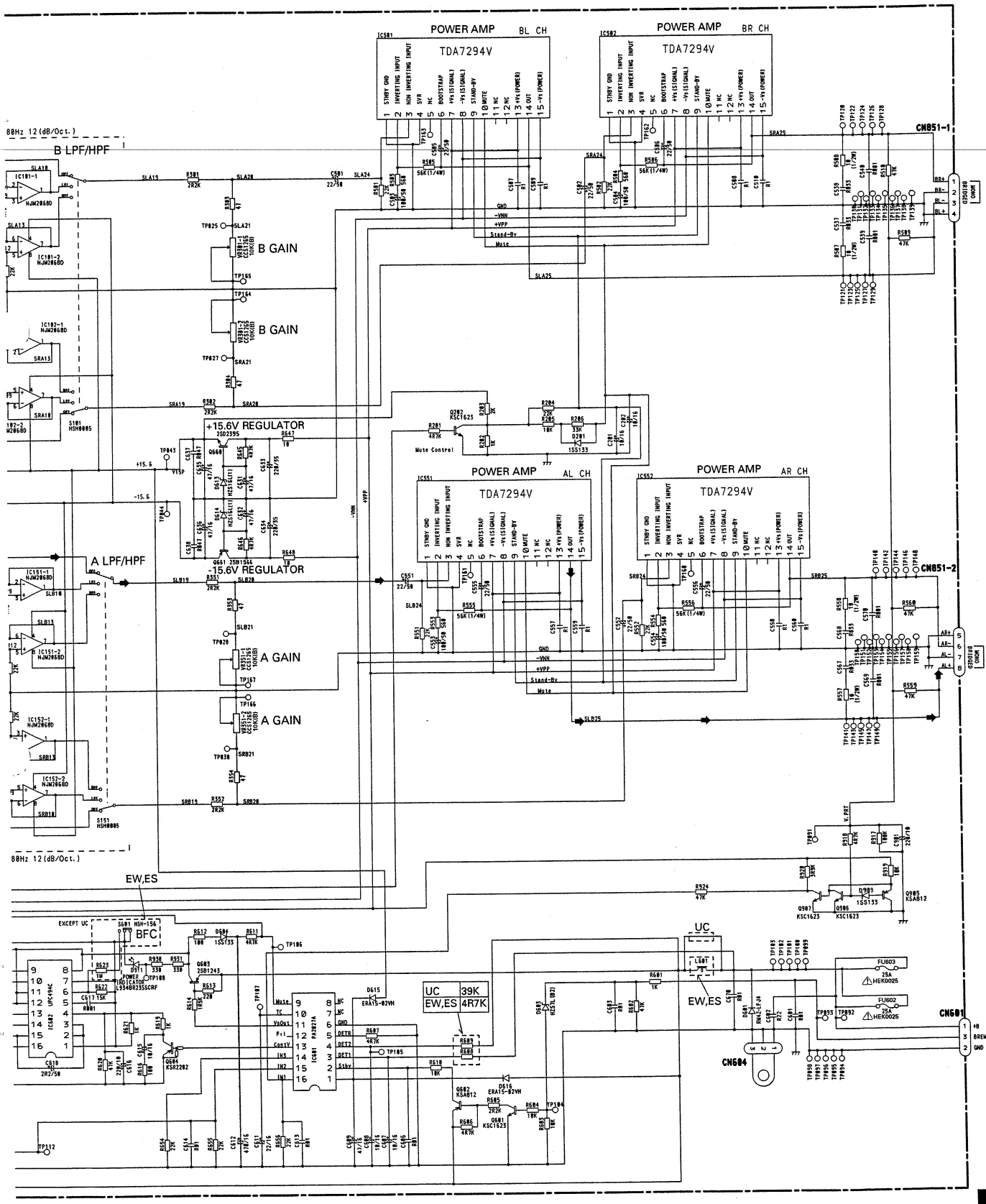
Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



A

A-b


POWER AMP BL CH
TDA7294V
POWER AMP BR CH
TDA7294V
POWER AMP AL CH
TDA7294V
POWER AMP AR CH
TDA7294V
B LPF/HPF
A LPF/HPF
B GAIN
A GAIN
+15.6V REGULATOR
-15.6V REGULATOR
Mute Control
EW,ES
BFC
UC
EW,ES
UC 39K
EW,ES 4R7K
CN851-1
CN851-2
CN601
CN604
FU603
FU602

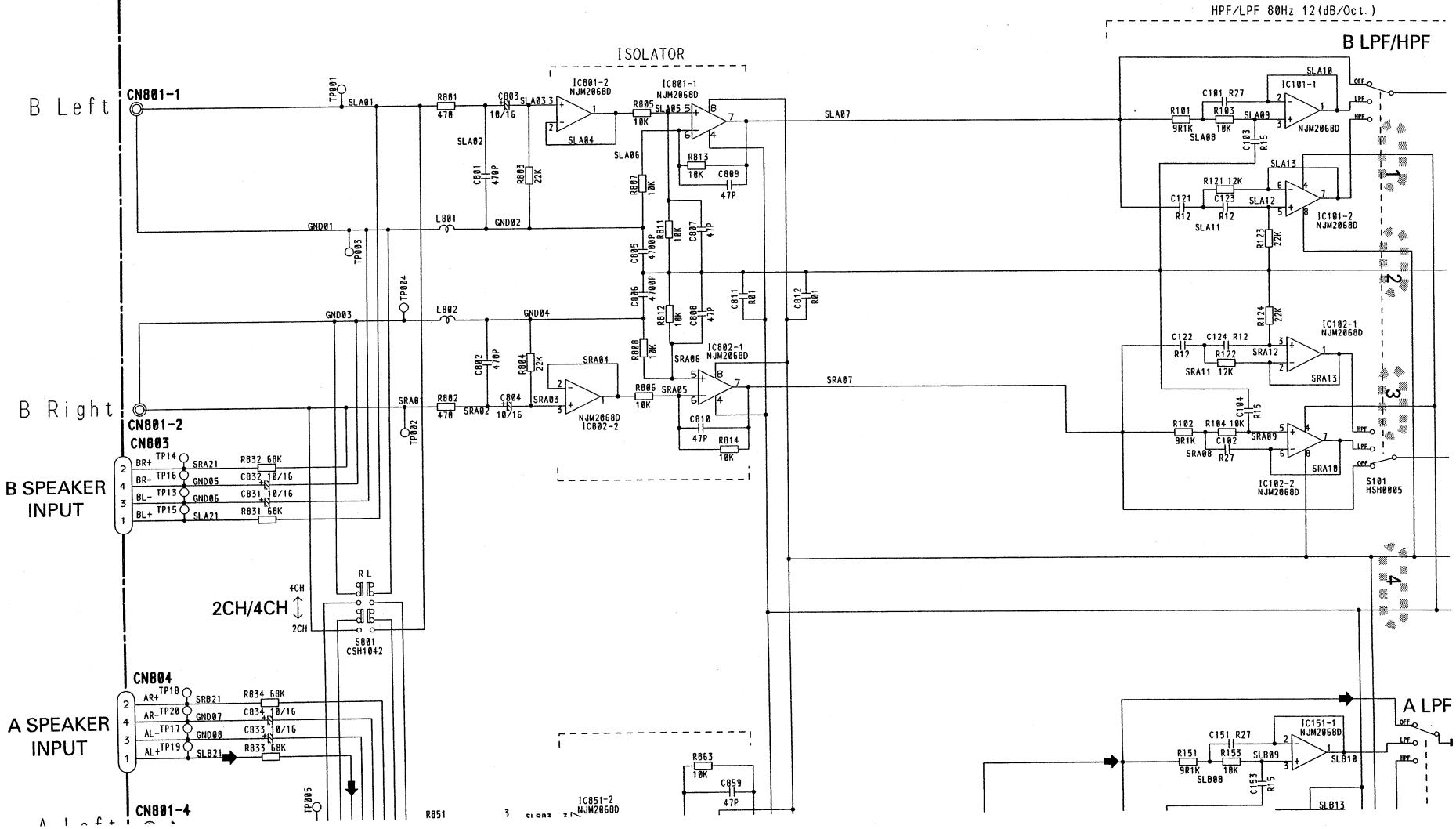
A AMP UNIT

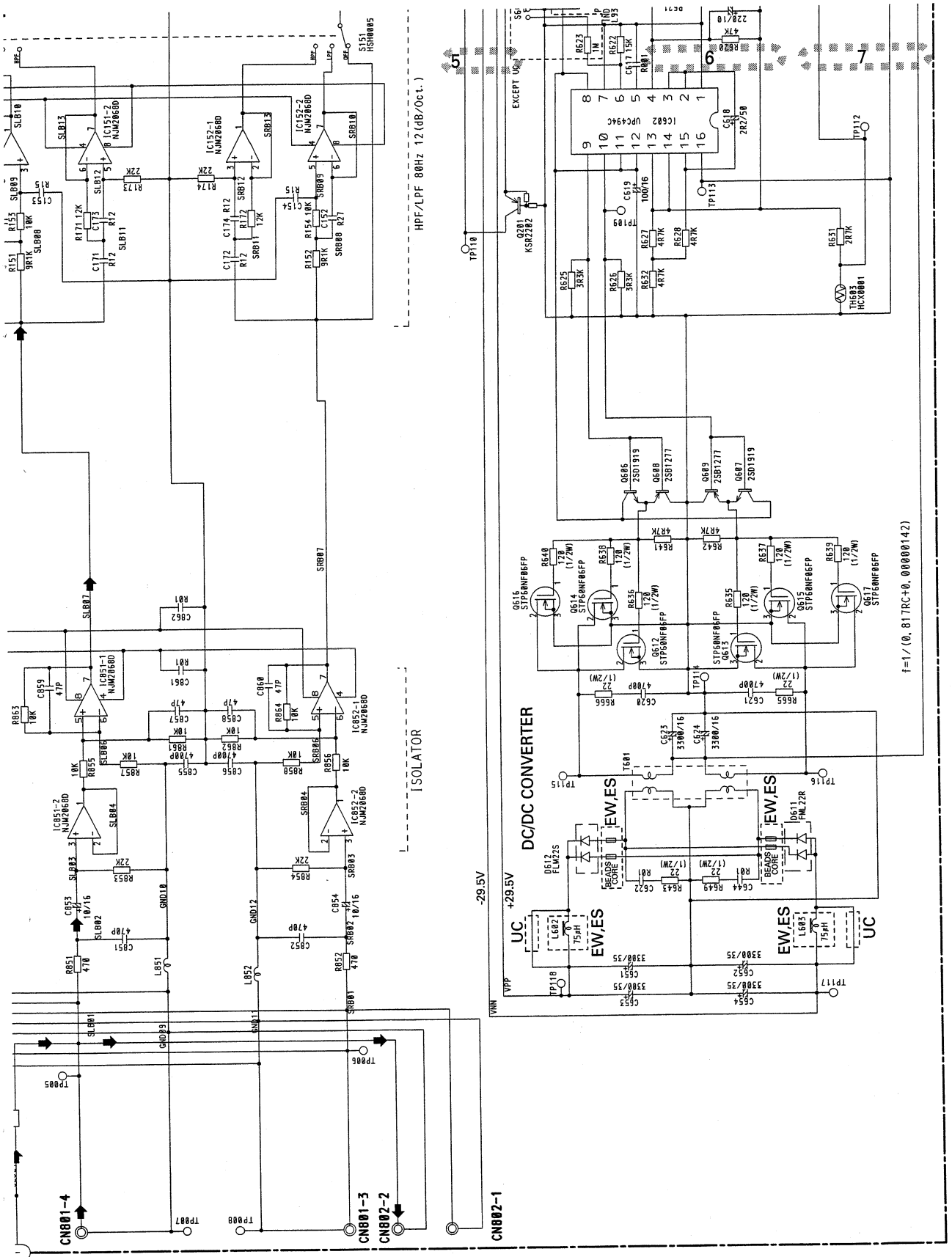
NOTE :

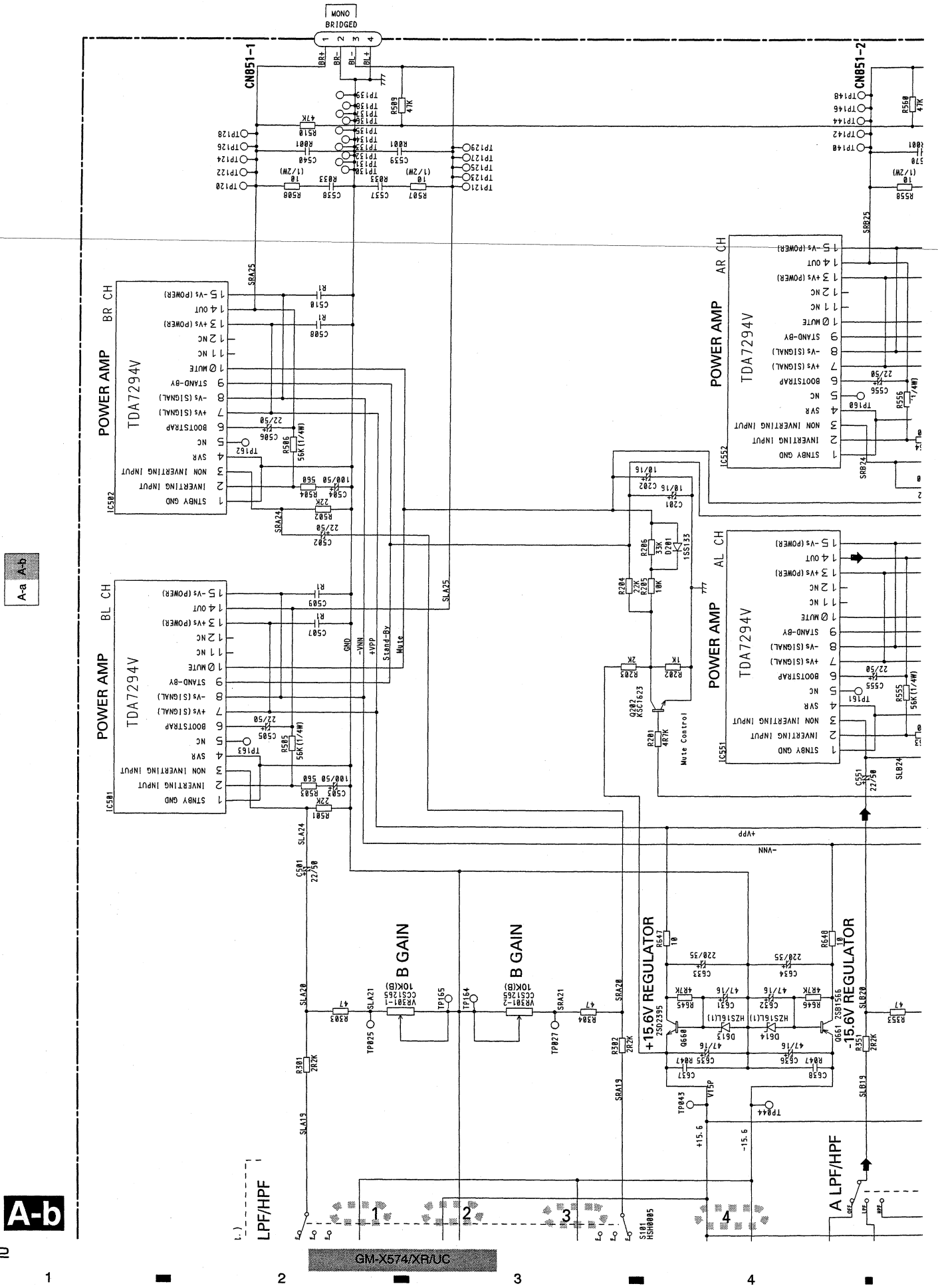
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



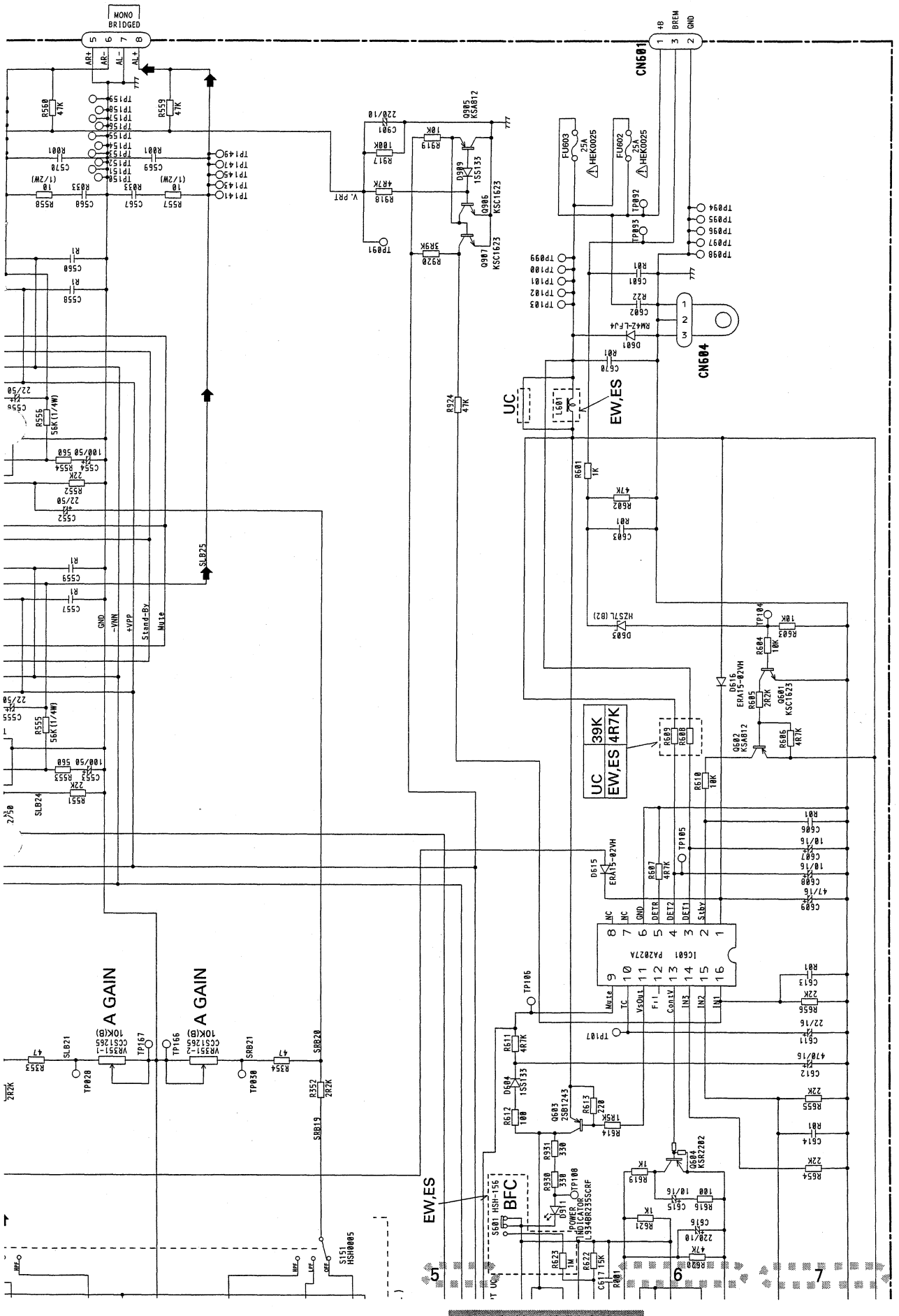

A-b
A-a
HPF/LPF 80Hz 12(dB/Oct.)
ISOLATOR
DC/DC CONVERTER
+29.5V
-29.5V
EW,ES
UC
CN801-4
CN801-3
CN802-2
CN802-1
A Left
A Right
Left
RCA
Preouts
Right


MONO BRIDGED
CN851-1
CN851-2
POWER AMP BR CH
POWER AMP BL CH
POWER AMP AR CH
POWER AMP AL CH
TDA7294V
IC502
IC501
IC552
IC551
B GAIN
B GAIN
+15.6V REGULATOR
-15.6V REGULATOR
LPF/HPF
A LPF/HPF
Mute Control
+VPP
-VNN
GM-X574/XR/UC

A-a A-b

A-b

12


MONO BRIDGED
CN601
CN604
A GAIN
A GAIN
EW,ES
BFC
UC
EW,ES
39K
4R7K
UC
EW,ES
A-a
A-b
A-b

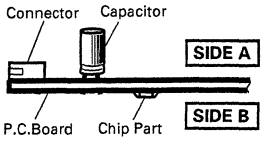
4. PCB CONNECTION DIAGRAM

4.1 AMP UNIT

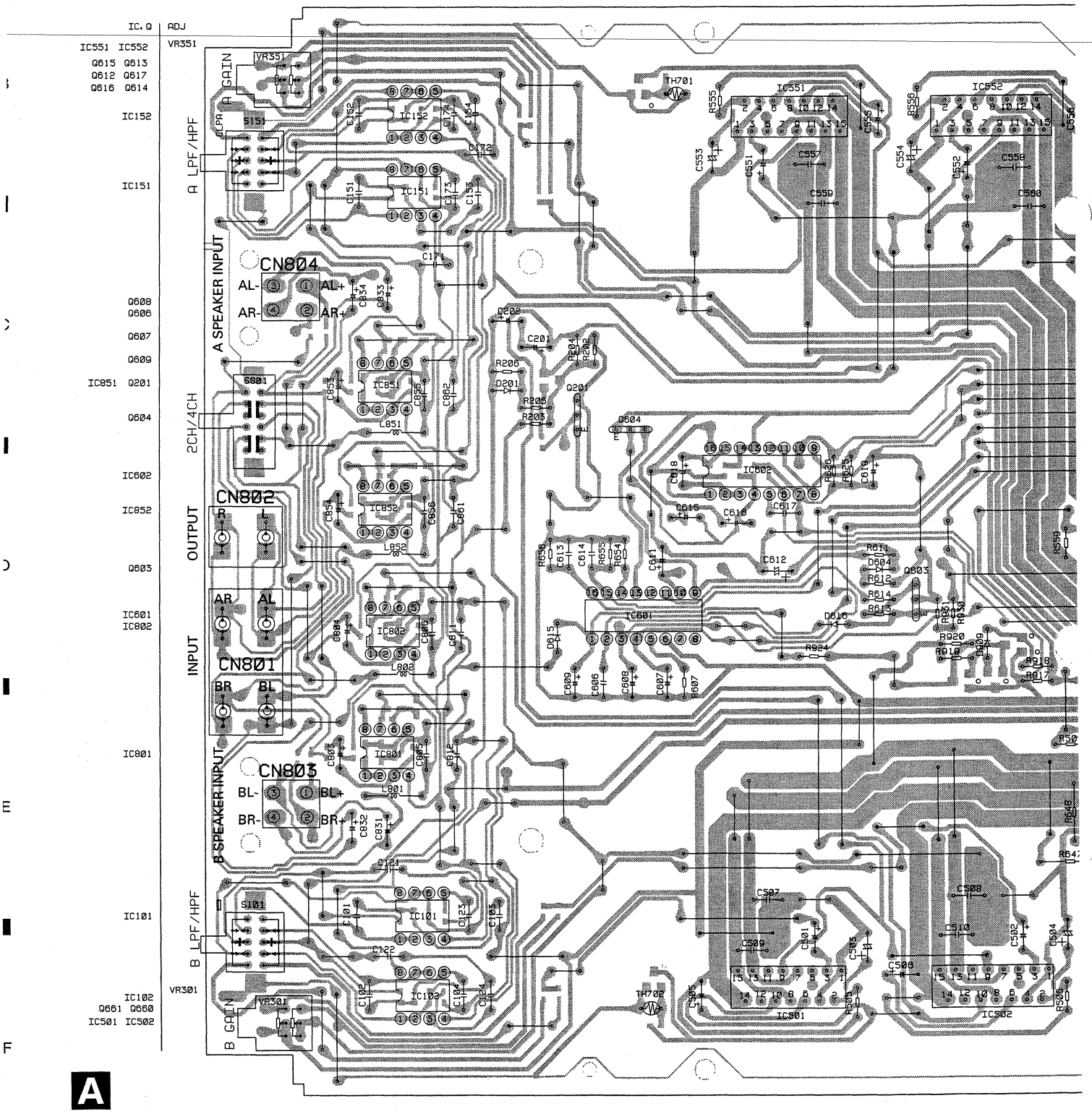
NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams

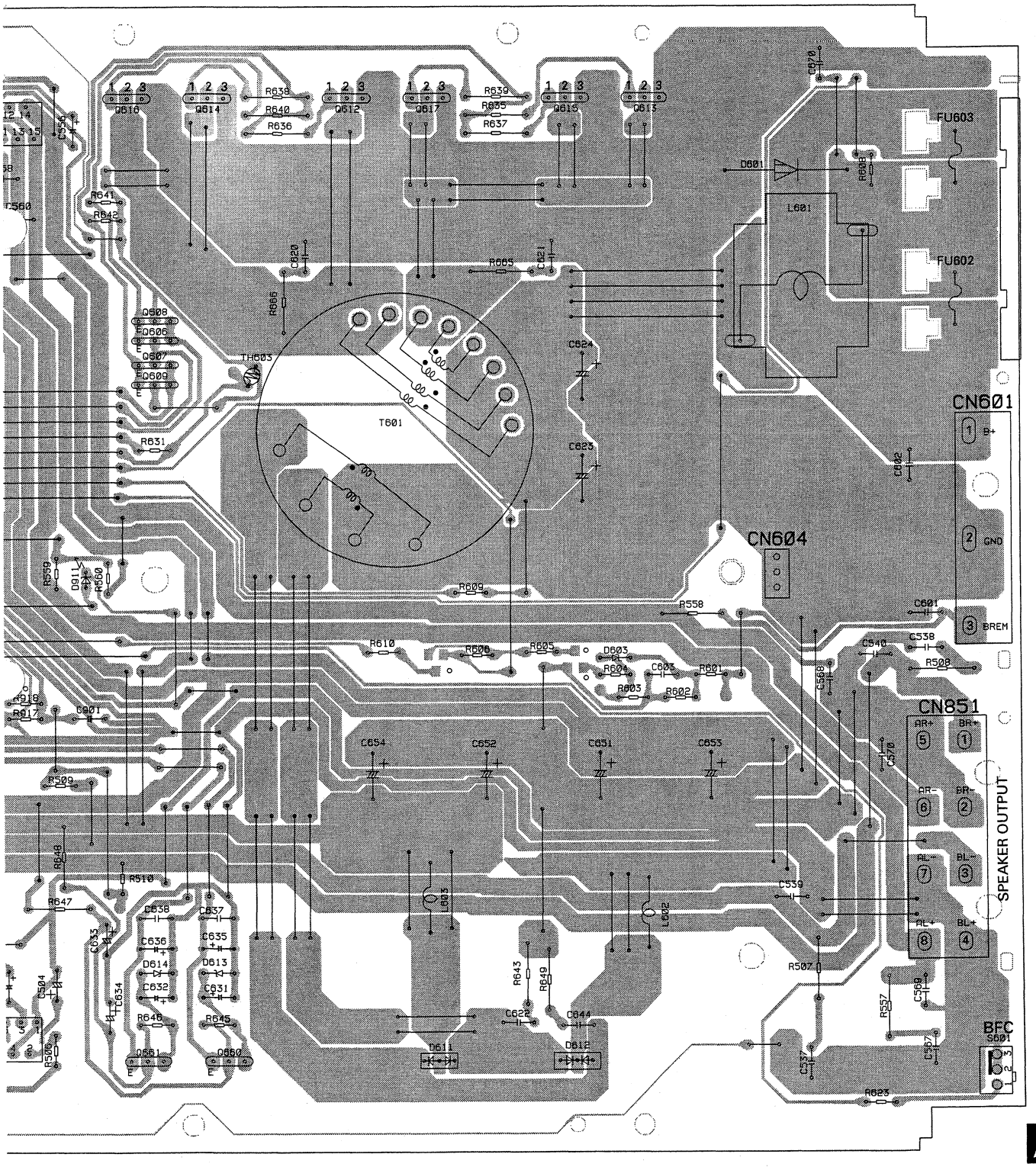


A AMP UNIT



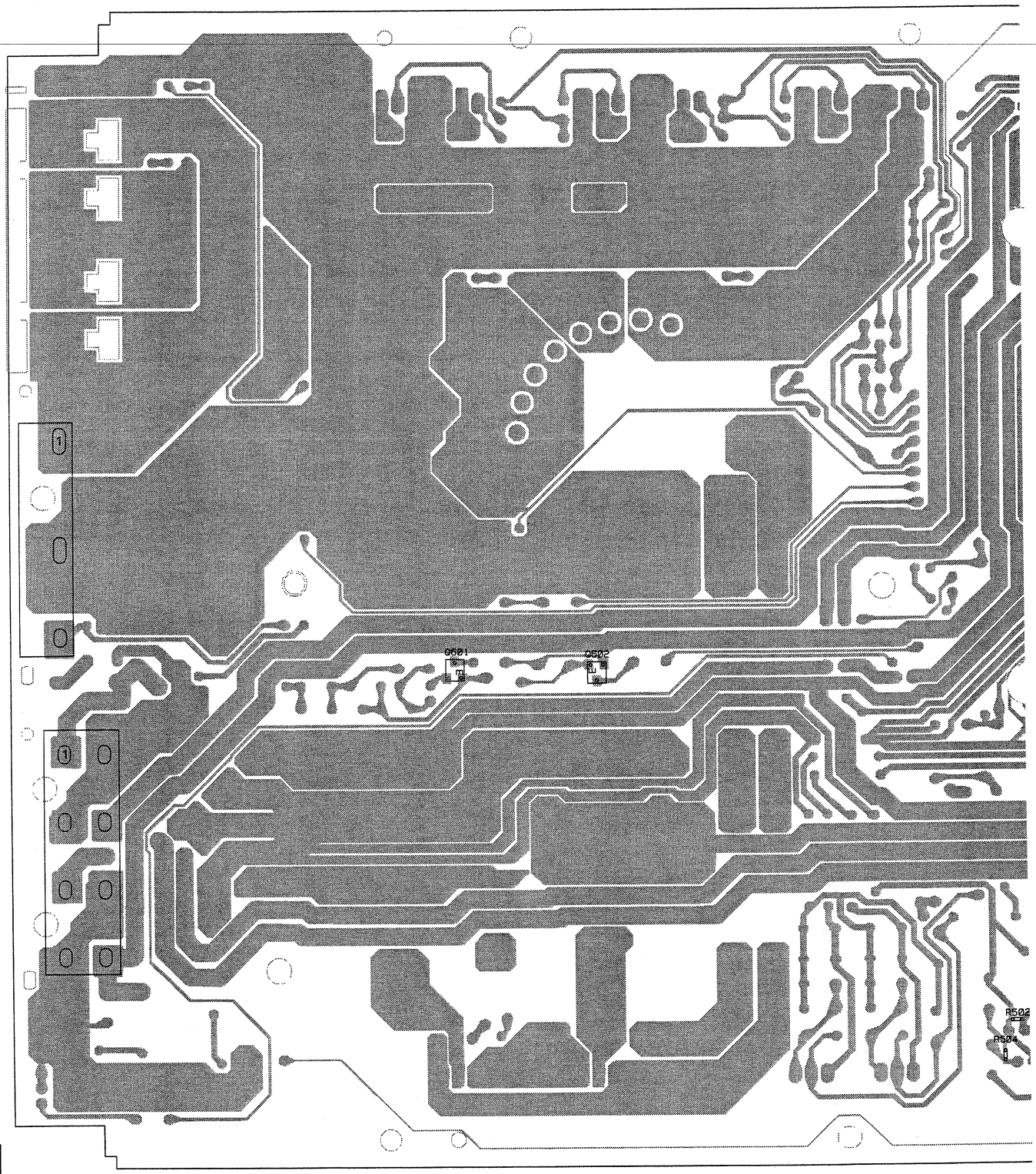
A

SIDE A


CN601
B+
GND
BREM
CN604
CN851
SPEAKER OUTPUT
FU603
FU602
L601
T601
TH603
BFC
S601

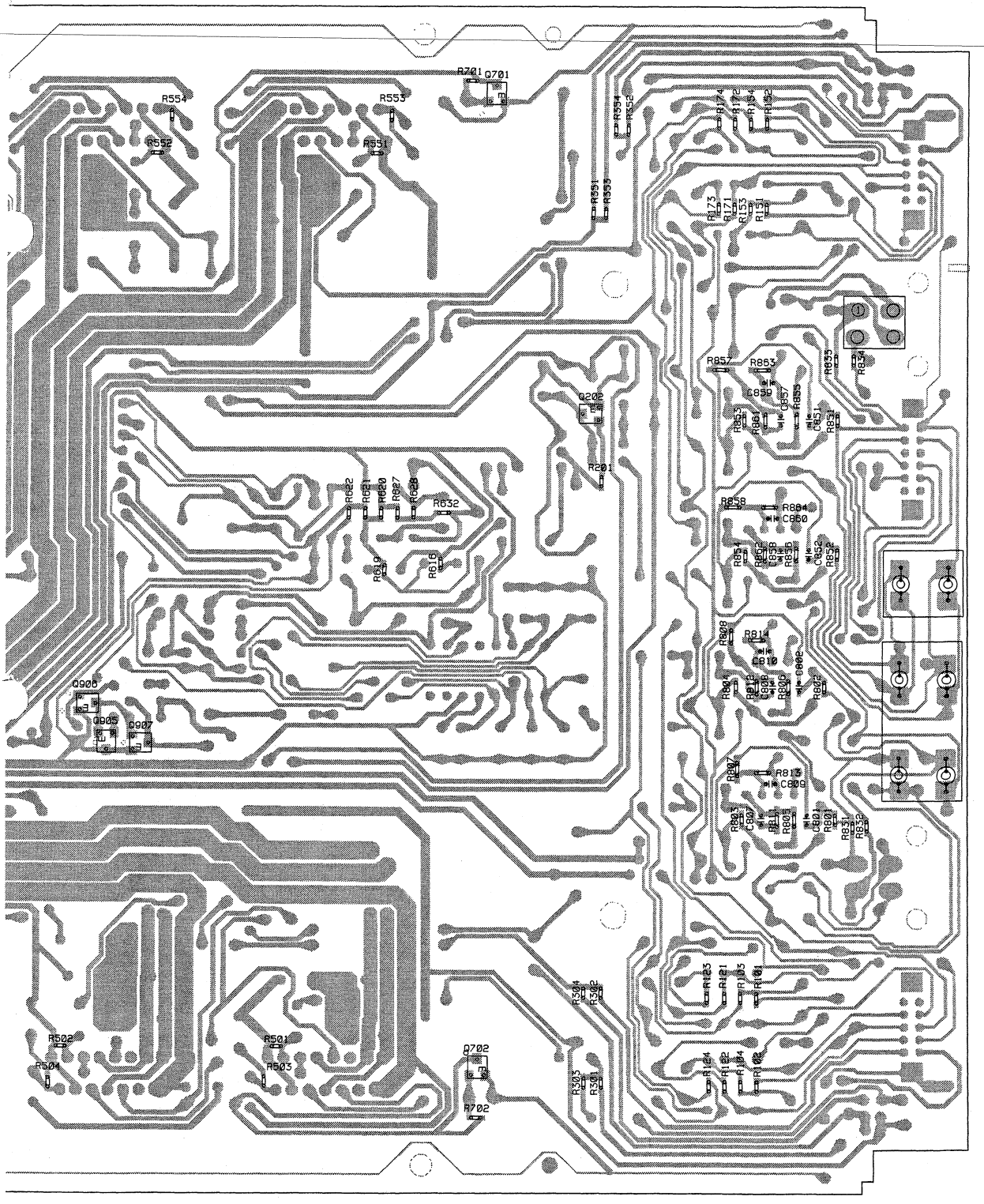
A

A AMP UNIT



A

SIDE B


R554
R553
R552
R551
Q701
R701
R354
R352
R351
R353
R174
R172
R154
R152
R173
R171
R153
R151
R857
R863
R855
R834
C859
C857
R853
C851
R852
Q202
R201
R622
R621
R620
R627
R623
R632
R619
R616
R858
R804
C860
C852
R854
R808
R814
C810
R809
R807
R813
C809
R803
C803
R801
C801
R831
R832
R502
R504
R501
R503
R304
R302
R303
R301
R702
R125
R121
R105
R101
R124
R122
R104
R102
IC, Q
Q701
Q202
Q601 Q602
Q906
Q905
Q907
Q702

5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

A Unit Number : HWH0211(GM-X574/XR/UC)
Unit Number : HWH0205(GM-X574/XR/EW)
Unit Number : HWH0206(GM-X574/XR/ES)
Unit Name : Amp Unit

MISCELLANEOUS

=====Circuit Symbol and No.		===Part Name	Part No.
IC	101	IC	NJM2068D
IC	102	IC	NJM2068D
IC	151	IC	NJM2068D
IC	152	IC	NJM2068D
IC	501	IC	TDA7294V
IC	502	IC	TDA7294V
IC	551	IC	TDA7294V
IC	552	IC	TDA7294V
IC	601	IC	PA2027A
IC	602	IC	UPC494C
IC	801	IC	NJM2068D
IC	802	IC	NJM2068D
IC	851	IC	NJM2068D
IC	852	IC	NJM2068D
Q	201	Transistor	KSR2202
Q	202	Transistor	KSC1623
Q	601	Transistor	KSC1623
Q	602	Transistor	KSA812
Q	603	Transistor	2SB1243
Q	604	Transistor	KSR2202
Q	606	Transistor	2SD1919
Q	607	Transistor	2SD1919
Q	609	Transistor	2SB1277
Q	612	FET	STP60NF06FP
Q	613	FET	STP60NF06FP
Q	614	FET	STP60NF06FP
Q	615	FET	STP60NF06FP
Q	616	FET	STP60NF06FP
Q	617	FET	STP60NF06FP
Q	660	Transistor	2SD2395
Q	661	Transistor	2SB1566
Q	905	Transistor	KSA812
Q	906	Transistor	KSC1623
Q	907	Transistor	KSC1623
D	201	Diode	1SS133
D	601	Diode	RM4Z-LFJ4
D	603	Diode	HZS7L(B2)
D	604	Diode	1SS133
D	611	Diode	FML22R
D	612	Diode	FML22S
D	613	Diode	HZS16L(1)
D	614	Diode	HZS16L(1)
D	615	Diode	ERA15-02VH
D	616	Diode	ERA15-02VH
D	909	Diode	1SS133

=====Circuit Symbol and No.		===Part Name	Part No.
D	911	LED(POWER)	L934BR235SRCF
L	601	Choke Coil 34μH (EW,ES model)	HTH0006
L	602	Choke Coil 75μH (EW,ES model)	HTH0010
L	603	Choke Coil 75μH (EW,ES model)	HTH0010
L	801	Ferri-Inductor	CTF1007
L	802	Ferri-Inductor	CTF1007
L	851	Ferri-Inductor	CTF1007
L	852	Ferri-Inductor	CTF1007
T	601	Transformer(UC model)	HTT0020
T	601	Transformer(EW,ES model)	HTT0026
TH	603	Thermistor	HCX0001
S	101	Switch(B LPF/HPF)	HSH0005
S	151	Switch(A LPF/HPF)	HSH0005
S	601	Switch(BFC)(EW,ES model)	HSH-156
S	801	Switch(4CH/2CH)	CSH1042
VR	301	Volume 10kΩ(A)(B GAIN)	CCS1265
VR	351	Volume 10kΩ(A)(A GAIN)	CCS1265
FU	602	Fuse 25A	HEK0025
FU	603	Fuse 25A	HEK0025
		Beads Core(EW,ES model)	HTF0001

RESISTORS

R	101		RS1/16S912J
R	102		RS1/16S912J
R	103		RS1/16S103J
R	104		RS1/16S103J
R	121		RS1/16S123J
R	122		RS1/16S123J
R	123		RS1/16S223J
R	124		RS1/16S223J
R	151		RS1/16S912J
R	152		RS1/16S912J
R	153		RS1/16S103J
R	154		RS1/16S103J
R	171		RS1/16S123J
R	172		RS1/16S123J
R	173		RS1/16S223J
R	174		RS1/16S223J
R	201		RS1/16S472J
R	202		RD1/4PU102J
R	203		RD1/4PU202J
R	204		RD1/4PU223J
R	205		RD1/4PU103J
R	206		RD1/4PU333J
R	301		RS1/16S222J
R	302		RS1/16S222J
R	303		RS1/16S470J
R	304		RS1/16S470J
R	351		RS1/16S222J
R	352		RS1/16S222J
R	353		RS1/16S470J
R	354		RS1/16S470J

=====Circuit Symbol and No.		===Part Name	Part No.
R	501		RS1/16S223J
R	502		RS1/16S223J
R	503		RS1/16S561J
R	504		RS1/16S561J
R	505		RD1/4PU563J
R	506		RD1/4PU563J
R	507		RS1/2PMF100J
R	508		RS1/2PMF100J
R	509		RD1/4PU473J
R	510		RD1/4PU473J
R	551		RS1/16S223J
R	552		RS1/16S223J
R	553		RS1/16S561J
R	554		RS1/16S561J
R	555		RD1/4PU563J
R	556		RD1/4PU563J
R	557		RS1/2PMF100J
R	558		RS1/2PMF100J
R	559		RD1/4PU473J
R	560		RD1/4PU473J
R	601		RD1/4PU102J
R	602		RD1/4PU473J
R	603		RD1/4PU103J
R	604		RD1/4PU103J
R	605		RD1/4PU222J
R	606		RD1/4PU472J
R	607		RD1/4PU472J
R	608	(UC model)	RD1/4PU393J
R	608	(EW,ES model)	RD1/4PU472J
R	609	(UC model)	RD1/4PU393J
R	609	(EW,ES model)	RD1/4PU472J
R	610		RD1/4PU103J
R	611		RD1/4PU472J
R	612		RD1/4PU101J
R	613		RD1/4PU221J
R	614		RD1/4PU152J
R	616		RS1/16S101J
R	619		RS1/16S102J
R	620		RS1/16S473J
R	621		RS1/16S102J
R	622		RS1/16S153J
R	623	(EW,ES model)	RD1/4PU105J
R	625		RD1/4PU332J
R	626		RD1/4PU332J
R	627		RS1/16S472J
R	628		RS1/16S472J
R	631		RD1/4PU272J
R	632		RS1/16S472J
R	635		RS1/2PMF121J
R	636		RS1/2PMF121J
R	637		RS1/2PMF121J
R	638		RS1/2PMF121J
R	639		RS1/2PMF121J
R	640		RS1/2PMF121J
R	641		RD1/4PU472J
R	642		RD1/4PU472J
R	643		RS1/2PMF220J
R	645		RD1/4PU472J
R	646		RD1/4PU472J
R	647		RS1/2PMF100J
R	648		RS1/2PMF100J
R	649		RS1/2PMF220J
R	654		RD1/4PU223J
R	655		RD1/4PU223J
R	656		RD1/4PU223J
R	665		RS1/2PMF220J
R	666		RS1/2PMF220J
R	801		RS1/16S471J
R	802		RS1/16S471J
R	803		RS1/16S223J

=====Circuit Symbol and No.		===Part Name	Part No.
R	804		RS1/16S223J
R	805		RN1/10SE1002D
R	806		RN1/10SE1002D
R	807		RN1/10SE1002D
R	808		RN1/10SE1002D
R	811		RN1/10SE1002D
R	812		RN1/10SE1002D
R	813		RN1/10SE1002D
R	814		RN1/10SE1002D
R	831		RS1/16S683J
R	832		RS1/16S683J
R	833		RS1/16S683J
R	834		RS1/16S683J
R	851		RS1/16S471J
R	852		RS1/16S471J
R	853		RS1/16S223J
R	854		RS1/16S223J
R	855		RN1/10SE1002D
R	856		RN1/10SE1002D
R	857		RN1/10SE1002D
R	858		RN1/10SE1002D
R	861		RN1/10SE1002D
R	862		RN1/10SE1002D
R	863		RN1/10SE1002D
R	864		RN1/10SE1002D
R	917		RD1/4PU104J
R	918		RD1/4PU472J
R	919		RD1/4PU103J
R	920		RD1/4PU392J
R	924		RD1/4PU473J
R	930		RD1/4PU331J
R	931		RD1/4PU331J

CAPACITORS

C	101	CFTNA274J50
C	102	CFTNA274J50
C	103	CFTNA154J50
C	104	CFTNA154J50
C	121	CFTNA124J50
C	122	CFTNA124J50
C	123	CFTNA124J50
C	124	CFTNA124J50
C	151	CFTNA274J50
C	152	CFTNA274J50
C	153	CFTNA154J50
C	154	CFTNA154J50
C	171	CFTNA124J50
C	172	CFTNA124J50
C	173	CFTNA124J50
C	174	CFTNA124J50
C	201	CEAT100M16
C	202	CEAT100M16
C	501	CEAT220M50
C	502	CEAT220M50
C	503	CEAT101M50
C	504	CEAT101M50
C	505	CEAT220M50
C	506	CEAT220M50
C	507	CFTNA104J50
C	508	CFTNA104J50
C	509	CFTNA104J50
C	510	CFTNA104J50
C	537	CFTNA333J50
C	538	CFTNA333J50
C	539	CQMA102J50
C	540	CQMA102J50
C	551	CEAT220M50
C	552	CEAT220M50
C	553	CEAT101M50

=====Circuit Symbol and No.	===Part Name	Part No.
C 554		CEAT101M50
C 555		CEAT220M50
C 556		CEAT220M50
C 557		CFTNA104J50
C 558		CFTNA104J50
C 559		CFTNA104J50
C 560		CFTNA104J50
C 567		CFTNA333J50
C 568		CFTNA333J50
C 569		CQMA102J50
C 570		CQMA102J50
C 601		CFTNA103J50
C 602		CFTNA224J50
C 603		CFTNA103J50
C 606		CFTNA103J50
C 607		CEAT100M16
C 608		CEAT100M16
C 609		CEAT470M16
C 611		CEAT220M50
C 612	470µF/16V	HCH0013
C 613		CFTNA103J50
C 614		CFTNA103J50
C 615		CEAT100M16
C 616		CEAT221M10
C 617		CQMA102J50
C 618		CEAT2R2M50
C 619		CEAT101M16
C 620		CQMA472J50
C 621		CQMA472J50
C 622		CQMA103J50
C 623	3300µF/16V	HCH0005
C 624	3300µF/16V	HCH0005
C 631		CEAT470M16
C 632		CEAT470M16
C 633		CEAT221M35
C 634		CEAT221M35
C 635		CEAT470M16
C 636		CEAT470M16
C 637		CFTNA473J50
C 638		CFTNA473J50
C 644		CQMA103J50
C 651	3300µF/35V	HCH0006
C 652	3300µF/35V	HCH0006
C 653	3300µF/35V	HCH0006
C 654	3300µF/35V	HCH0006
C 670		CQMA103J50
C 801		CCSRCH471J50
C 802		CCSRCH471J50
C 803		CEAT100M16
C 804		CEAT100M16
C 805		CQMA472J50
C 806		CQMA472J50
C 807		CCSRCH470J50
C 808		CCSRCH470J50
C 809		CCSRCH470J50
C 810		CCSRCH470J50
C 811		CFTNA103J50
C 812		CFTNA103J50
C 831		CEAT100M16
C 832		CEAT100M16
C 833		CEAT100M16
C 834		CEAT100M16
C 851		CCSRCH471J50
C 852		CCSRCH471J50
C 853		CEAT100M16
C 854		CEAT100M16
C 855		CQMA472J50
C 856		CQMA472J50
C 857		CCSRCH470J50
C 858		CCSRCH470J50

=====Circuit Symbol and No.	===Part Name	Part No.
C 859		CCSRCH470J50
C 860		CCSRCH470J50
C 861		CFTNA103J50
C 862		CFTNA103J50
C 901	220µF/10V	HCH0012

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

● Removing the Case (not shown)

1. Remove the eight screws and then remove the Case.

● Removing the Amp Unit (Fig.1)

1. Remove the eight screws.
2. Remove the two screws and then remove the two Panels.
3. Remove the eight screws and then remove the two Heat Sinks.
4. Remove the five screws and then remove the Amp Unit.

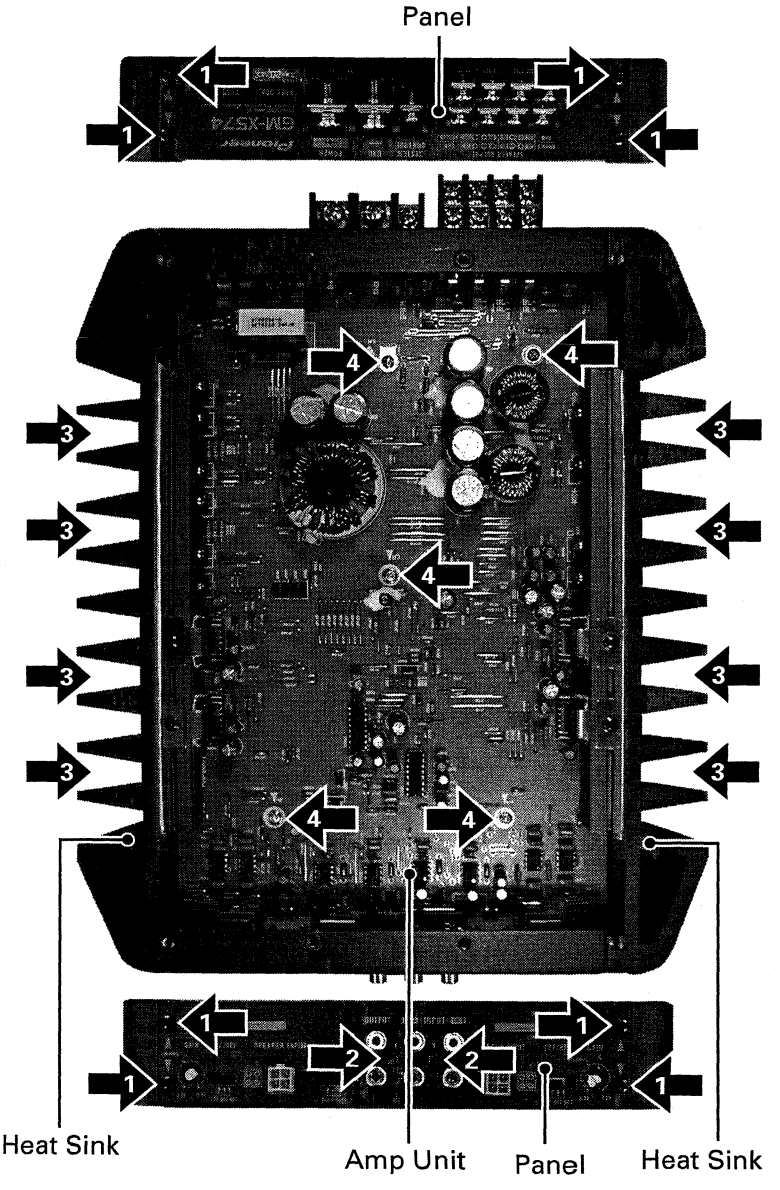
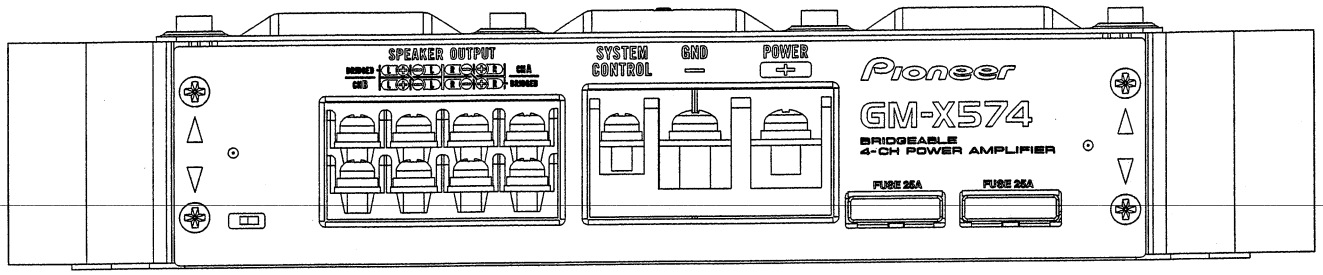
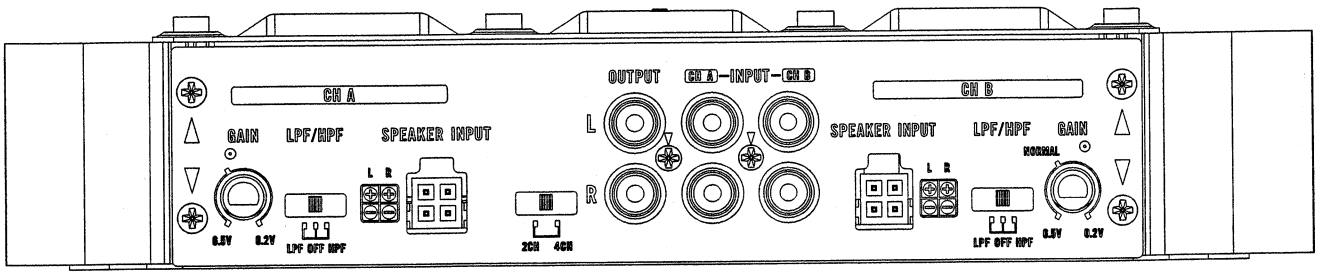


Fig.1

7.1.2 CONNECTOR FUNCTION DESCRIPTION





7.2 IC

TDA7294V